

## Page 1 of 1

All amounts are calculated in domestic currency.

### All Line Item Types

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Req	Vendor Name	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VC-COP001 Thyssenkrupp Materials CA Ltd													
PO24973 CAD	1	No			M2024T3S.080 sf	sf	7/21/2014	7/25/2014	192.0000	\$4.53	0.0000	0	\$869.72
					2024-T3 .080 sheet	sf	192.0000	DES102		\$869.72	0.0000	0	
					m129891								
	2	No			M304B0.375X03.000 f	f	7/21/2014	7/25/2014	10.0000	\$11.94	0.0000	0	\$119.38
					M304 SS bar .375 x 3.00	f	10.0000	DES102		\$119.38	0.0000	0	
					m129891								
	13	No			M7075T6B0.375X6.0 f	f	7/21/2014	7/25/2014	24.0000	\$15.19	0.0000	0	\$364.57
					00								
					7075-T6 BAR 0.375" x 6.000"	f	24.0000	DES102		\$364.57	0.0000	0	
					m129891								
	14	No			M7075T6B1.500X1.5 f	f	7/21/2014	7/25/2014	12.0000	\$13.92	0.0000	0	\$167.01
					00								
					7075 T6 BAR 1.500 x 1.500	f	12.0000	DES102		\$167.01	0.0000	0	
					m129891								
	15	No			M7075T6B6.000X1.0 f	f	7/21/2014	7/25/2014	12.0000	\$33.70	0.0000	0	\$404.44
				00									
				7075-T6 BAR 6.000" x 1.000"	f	24.0000	DES102		\$404.44	0.0000	0		
				m129891									
Total Received Quantity:										250.0000			
Total Qty to Inspect (PO U/M):										0.0000			
Total Reject Quantity:										0.0000			
Total Receipt Value:										\$1,925.12			
Total Balance Due Quantity:										12.0000			

## Receiving Report

Date:

1/17/25  
Thyosah

Batch No:

M129891

Supplier:

Dart P/O:

24973

Packing Slip: Yes ☒ No ☐  
Invoice: Yes ☐ No ☒  
Receipt: Cash ☐ Cr ☒  
New Supplier Yes ☒ No ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐  
Waybill Attached: Yes ☐ No ☒  
Shipment Complete: Yes ☒ No ☒ N/A ☐  
QC18 Inspection ☒ DAS 14-0729 N/A ☐  
Work Order 23 N/A ☒

### Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number
<u>M70705</u>	<u>636.00 x 1.00</u>	<u>24</u>	<u>12</u>	<u>12</u>			

Initials of Receiver

QC12

Production/Admin:

Date

Received/Costing

Initial

Location

## B I L L O F L A D I N G

Ship From:  
THYSSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 888606  
Ship Date 23Jul14 at 15:16 From PFW  
Probill  
Via VIM DELIVERY  
FOB CONCORD  
Frt PREPAID  
Route 0- 0 Manifest  
Vhcle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: ( 20115)  
DART AEROSPACE  
1270 ABERDEEN ST  
HAWKESBURY, ON K6A 1K7

Ship To: ( 1)  
DART AEROSPACE  
1270 ABERDEEN ST  
HAWKESBURY, ON K6A 1K7  
Tel: 613-632-9577 Fax: 613-632-1053

## B I L L O F L A D I N G

1) Our Order PEC-702040- 1 Your PO # 24973  
Part # Rel # CHANTAL

ALUMINUM SHEET 2024 -T3  
.0800 Nom X 48.0000" X 144.0000"

Heat Number Tag No  
684098A7 601406

Quantity PCS Wt LBS  
192.00 SFT 4 221

MTR

2) Our Order PEC-702040- 2 Your PO # 24973  
Part # Rel # CHANTAL

STAINLESS STEEL FLAT BAR 304L SLIT/EDGED  
.375" x 3.00" X 120.0000"

Heat Number Tag No  
1310439 315832

Quantity PCS Wt LBS  
10 FT 1 40

MTR

3) Our Order PEC-702040- 3 Your PO # 24973  
Part # QQ-A250/12 Rel # CHANTAL

ALUMINUM PLATE 7075-T651  
.375" THICK X 6.0000" X 144.0000"

Heat Number Tag No  
R12372 601286

Quantity PCS Wt LBS  
12.00 SFT 2 70

MTR

4) Our Order PEC-702040- 4 Your PO # 24973  
Part # Rel # CHANTAL

ALUMINUM SQUARE BAR 7075-T651 QQ-A-225/9  
1.50" X 144.0000"

Heat Number Tag No  
MA20133796 601542

Quantity PCS Wt LBS  
12 FT 1 34

MTR

Page: 1 ....Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

SHIP FROM:  
THYSSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 905-738-9033

SHIP TO: ( 1 )  
DART AEROSPACE

B I L L O F L A D I N G  
No: PEC 888606  
Ship Date 23Jul14 at 15:16 From PFW  
Probill  
Via VIM DELIVERY  
FOB CONCORD  
Frt PREPAID  
Route 0- 0 Manifest  
Vhcle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: ( 20115 )  
DART AEROSPACE

B I L L O F L A D I N G

5) Our Order PEC-702040- 5 Your PO # 24973  
Part # Rel # CHANTAL

ALUMINUM PLATE 7075-T651

1.00" THICK X 6.0000" X 144.0000"

Heat Number Tag No  
171061 601407

Quantity PCS Wt LBS  
6.00 SFT 1 94

TOTAL: Tags PCS LBS  
5 9 459

Heat Number \*\*\* Chemical Analysis \*\*\*  
1310439  
MA20133796

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT  
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR  
TO SHIPPING.

ATTN: CHANTAL/LINDA

\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*  
\*\* REFERENCED ON IT \*\*

TOTAL 1 PKG, 1 TUBE, 1 SKID, 2 BDLS GW. 657 LBS

\*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA  
CONCORD, ONT.\* \*\*\* 9:00 AM TO 4:00 PM \*\*\*

\*\*\*\* TEL. 800-926-2600 \*\*\*\*

\*\*\*\*\*  
\* WE STOCK STAINLESS STEEL \*

\* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT \*

\*\*\*\*\*

\*\*\*PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE  
ADDED TO EVERY ORDER.\*\*\*

Page: 2 .... Last

ALUMINIUM • LAITON • CUIVRE • PLASTIQUE • ACIER INOX  
ALUMINUM • BRASS • COPPER • PLASTICS • STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE



# THYSSENKRUPP MATERIALS NA

PART AEROSPACE

STAINLESS STEEL PLAT BAR 304L SLIT/EDGED  
3.75" X 3.00" X 120.0000"

PART NO.

PO/Ref 24973

/CHANTAL

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results

BL PEC-888606-002

23rd/14  
Pg 1/1

S.I.P.I.

CERTIN.

DATE:

19/09/13

PACKING LIST NR

1016

YOUR ORDER

PO2673-2765

Via Scania 65-43122 Parma Italy Tel+39 0521 771558 Fax+39 0521 771155

PAG 2/3

DESCRIPTION OF PRODUCTS

STAINLESS STEEL ROLLED

EDGES FLAT BARS

FIDELITY STAINLESS LTD

1303 NORTH SERVICE ROAD EAST

OAKAVILLE ON L8H 1A7

CANADA

ACCORDING TO

ASTM A240 - ASTM A480-ASME SA240 - ASME SA480

DAS  
23  
9-89  
14-07-2012

HEAT	COIL	Quality	LENGTH FEET	THICK INCHES	WIDTH INCHES	WEIGHT LBS	YIELD 2% KSI	YIELD 1% KSI	TENSILE KSI	ELONGATION % A50	A5	BEND TEST 180°	HARDNESS BRINELL	
0508062	407406	304L	12	1/4	4	1005	46		93		51.00		88.00	RB
0508062	407406	304L	12	1/4	5	1005	46		93		51.00		88.00	RB
0508062	407406	304L	12	1/4	6	1980	45		93		51.00		88.00	RB
1310439	4390200	304L	12	3/8	1	935	44		96		52.00		87.00	RB
1310439	4390200	304L	12	3/8	2	1986	44		96		52.00		87.00	RB
1310439	4390200	304L	12	3/8	3	1924	44		96		52.00		87.00	RB
1310439	4390200	304L	12	3/8	4	1806	44		96		52.00		87.00	RB
1311754	17540400	304L	12	1/2	1	1993	41		93		56.00		87.00	RB
1311754	17540400	304L	12	1/2	2	1973	41		93		56.00		87.00	RB
1311754	17540400	304L	12	1/2	2 1/2	1065	41		93		56.00		87.00	RB
1311754	17540400	304L	12	1/2	5	1019	41		93		56.00		87.00	RB
0433557	393212	316L	12	1/4	2	970	39		92		55.00		85.00	RB
HEAT	COIL	Quality	C	SI	Mn	P	S	Cr	Mo	Ni	Ti	Co	N	
0508062	407406	304L	0.025	0.320	1.730	0.028	0.030	18.050		8.050			0.056	
1310439	4390200	304L	0.018	0.410	1.450	0.025	0.001	18.160		8.050			0.067	
1311754	17540400	304L	0.019	0.360	1.520	0.034	0.004	18.060		8.110			0.068	
0433557	393212	316L	0.023	0.350	0.300	0.032	0.001	16.510	2.020	10.220			0.041	
QUENCHING: 1050°														
COUNTRY OF ORIGIN: ITALY FREE FROM MERCURY CONTAMINATION														
OK														
OK														
S.I.P.I.														
Claudio Carabiani														
Quality control														
Quality control														

# KAISER ALUMINUM FABRICATED PRODUCTS

*Best in Class*

## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

Kaiser Aluminum  
Trentwood Works  
Spokane, WA 99215-5108  
(800) 367-2586

CUSTOMER PO NUMBER: 5400219451-30		WORK PACKAGE:	CUSTOMER PART NUMBER: ALFLR01585-48		PRODUCT DESCRIPTION: Kaiser Stretched
KAISER ORDER NUMBER: 1171863	LINE ITEM: 3	SHIP DATE: 05/01/2014	ALLOY: 2024	CLAD: BARE	TEMPER: T3
WEIGHT SHIPPED: 3256 LB	QUANTITY: 58 PCS EST.	B/L NUMBER: 2047633	GAUGE: 0.0800 IN	WIDTH: 48.000 IN	LENGTH: 144.000 IN
SHIP TO:  COPPER & BRASS SALES 404 CENTURA COURT SPARTANBURG, SC 29303 US			SOLD TO:  COPPER & BRASS SALES ATTN: ACCOUNTS PAYABLE P.O. Box 5116 SOUTHFIELD, MI 48086 US		

MHU 1779564: LOT 684098A7: 58 pieces

### Certified Specifications

AMS 4037/RevP AMS-QQ-A-250/4/RevA ASTM B 209/Rev10 CMMP 019/RevD CMMP 025/RevU

Test Code: 1504 **23** 14-07-29 Test Results:

LOT: 684098A7 CAST: 674 DROP: 43 INGOT: 1

Melted in USA  
(ASTM E8/B557)  
(EN 2002-1)

Tensile: Temper	Dir/#Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
T3	LT / 02 (Min:Max)	63.3 : 65.6 (436 : 452)	43.5 : 44.6 (300 : 308)	18.2 : 18.6

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual	0.09	0.25	4.4	0.56	1.3	0.01	0.18	0.02	0.01	0.00	TOT 0.04

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
2024	MIN 0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	MAX 0.05
	MAX 0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.05	TOT 0.15

Aluminum Remainder

Plant Serial: 4332114

Kaiser Order Number: 1171863

Line Item: 3

Page 1 of 2

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2403266504

CstAr

CstOr 259848

Wgt.: 221.184 LB

Date 07/14/2014

*John R. Zumbatti*

# KAISER ALUMINUM FABRICATED PRODUCTS

*Best in Class*

## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

Kaiser Aluminum  
Trentwood Works  
Spokane, WA 99215-5108  
(800) 367-2586

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC (Kaiser), is ISO-9001:2008/AS9100C certified and hereby certifies that all material shipped under this order: \* has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. \* was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 232.225 for domestic content. \* has been thermally processed in compliance with AMS 2772, where applicable. \* is mercury free, within the limits of detection of ASTM E1251 (<1ppm). \* is in compliance with RoHS 2, European Union Directive 2011/65/EU. \* is in compliance with and regularly monitors any updates to the European Chemical Agency, ECHA, REACH regulations, (EC) n°1907/2006. \* is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act. Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

JAMES HEMENWAY, LABORATORIES SUPERVISOR

*James Hemenway*

Plant Serial: 4332114  
Kaiser Order Number: 1171863  
Line Item: 3

Page 2 of 2

From: ThyssenKrupp Materials NA  
Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2403266504  
CstAr CstOr 259848  
Wgt.: 221.184 LB Date 07/14/2014

*John R. Zumbach*

Constellium Valais SA

CH-3960 Sierre  
Suisse

Aerospace and Transportation  
Europe - AT Valais, Usines de Sierre et Steg

Tel : +41(0) 27 457 51 11  
<http://www.constellium.com>

Constellium

3

CONSTELLIUM ROLLED PRODUCTS  
RAVENSWOOD, LLC

US -26164 RAVENSWOOD

### INSPECTION CERTIFICATE

According To EN 10204-3.1  
Disp. Advice / Cert 0080237066  
Date 10/07/2013 Page 1

Your Order 5400179908  
Copper  
Project  
Dated 01/05/2013  
Our Confirmation No. 143280-50  
Customer No. 606281  
Sales Contact Fabienne Salamin  
++41 (27) 457 6432  
Certificate Dpt : 41 27 457 66 92

Aluminium plates in AA7075-T651, mill finish, Alumatex paper interleaved  
To AMS 4045K, AMS QQ-A-250/12 August 1997, ASTM B209 and SIE0002

DAS

23

9-89

Your article : 012-000501

14-07-29

Lot	Production No.	Weight	Quantity	Dimensions
R12372	6241623	3117.28 Lbs	9	0.375" x 60.50" x 144.50"

### Mechanical and technological properties

Sample	Temper	Ksi-UTS	Ksi-YS	A%2inch	HB							
min-max	T651	>=78	>=67	>=9								
min-max												

### Measured values

R12372-1	T651	86.0	75.5	14	174							
R12372-2	T651	85.4	75.5	14	176							

### Chemical composition

Required composition (% by weight)

Casting No	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti		
Min			1.2		2.1	.18		5.1			
Max	.40	.50	2.0	.30	2.9	.28	.05	6.1	.20		

### Analysis results (% by weight)

Other elements: Each <= 0.05% Total <= 0.15%

31374812	0.06	0.17	1.47	.028	2.44	0.19	.0037	5.63	.022		
----------	------	------	------	------	------	------	-------	------	------	--	--

### Remark

This certificate of conformance verifies that the organization took effective control of quality to meet the specified requirements on both the sales order(s) and the customer purchase order(s)

\*\*\* COUNTRY OF ORIGIN AND MANUFACTURE : SWITZERLAND \*\*\*

Compliant to the European Union Directive 2011/65/EU also known as RoHS

Alain Thurre

Inspection Department

Valid without signature 03

Système de Management certifié

ISO 9001 / ISO 14001 / OHSAS 18001

Definition of abbreviations on demand



## 00:25:40



ALCOA

Govt. Contract No.

We hereby certify that the material covered in this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, or as previously agreed to with customer and that samples representative of the material met the composition limits and have the mechanical properties shown on the face of this sheet. Manufactured under an ISO/TS 16949 registered quality management system.

Melmed and manufactured in the USA.

*Robert J. Melmed*

  
James E. Samuel II, Quality Assurance Manager

BOL 000161748

QRR

1

## TEST REQUIREMENTS

TEST REQUIREMENTS		test	test	test	test	test	test	test	test
	U.T.S.								
	T.Y.S.								
	%Elong								
Max:									
Min:									
	77.0								
	66.0								
	07.0								

Test Results		No. of Tests	Test	Test	Test	Test	Test	Test	Test	Test	Test
Lot / Work Order			U.T.S.	T.Y.S.	%Elong						
3		Max: 82.8	75.9	16.0							
Min: 81.6		73.8	15.0								

When 2 or more tests per lot are made, the highest and lowest values are reported. Analysis obtained from one or more samples in this lot.

## TEST ABBREVIATIONS

U.T.S. Ultimate Tensile Strength KSI

Aluminum Association Chemical Composition Limits (in Weight %)

T.Y.S. Tensile Yield Strength KSI .2% offset

%Elong	Elongation % in 2"
0	0
10	10
20	20
30	30
40	40
50	50
60	60
70	70
80	80
90	90
100	100

ALLOY	%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%Others	%Others	%AL
MAX	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.15	Rem
MIN			1.2		2.1	0.18	5.1		Each	Total	

Actual Started Chemistry

LOT/WORK ORDER	%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%OE	%OT	%AL
MAX	0.05	0.08	1.7	0.00	2.5	0.20	5.9	0.03	LT 0.05	LT 0.15	Rem
MIN	0.04	0.06	1.6	0.00	2.5	0.20	5.7	0.02			

## NOTES:

Material compliant with FARS 252.225-7001 (Buy American Act)  
Mercury is not a normal contaminant in aluminum alloys and neither is it nor any of its compounds are used in the manufacture of our product.  
This alloy meets the requirements of EU 2011/65/EC (RoHS) and EU 2000/53/EC for lead, mercury, cadmium and hexavalent chromium.

From: Thyssenkrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2403266508

CstAr CstOr 259848

Wgt.: 34 LB      Date 07/15/2014

John. J. Smith.

# Certified Inspection Report

01/31/14  
00:25:41

Alcoa Inc.  
Massena Operations  
Park Avenue East, Massena, NY 13662



ALCOA

Customer  
**Copper Brass Sales**

Customer P.O. No.  
**5400211578**

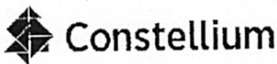
Customer Part No.  
**(ALSQ00010)**

Alcoa Order No.  
**MMC-B0354- -020**

Govt. Contract No.

From: ThyssenKrupp Materials NA  
Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2403266508  
CstAr CstOr 259848  
Wgt.: 34 LB Date 07/15/2014

*John R. Smith*



# CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

5



COPPER & BRASS SALES, INC.  
5 STERLING DRIVE  
WALLINGFORD CT

06492-2438



COPPER & BRASS SALES  
P.O. BOX 5116  
SOUTHFIELD MI

48086

COPPER&BR 802001 4075 INCLUSION SERIAL#: 20140408802001 PAGE 1 OF 3

CUSTOMER PURCHASE ORDER NO. & ITEM				Constellium ORDER NO.			
5400215635				235-473829			
ALLOY	CLAD.	TEMPER	GAUGE	WIDTH	LENGTH		
7075	00	T651	1.03000	60.500	144.500		
ITEM ORDERED							
MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL							
CUSTOMER SPECIFICATION							
AMS-QQ-A-250/12							
PART NUMBER			DATE SHIPPED				
ALFLR00994			802000		04/10/14		
WEIGHT SHIPPED		NO. OF PIECES		GOVT. CONTRACT NO.			
3,780		4					

**CERTIFICATION**  
"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC  
859 Century Road  
P.O. BOX 68  
RAVENSWOOD, WV 26164 USA

Steve Good - Laboratory Manager

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS										
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX									
171051	LT	2	80.8	81.1	71.8	71.8	12.5	13.5											
All material contained in lot 171051 was cast and manufactured in the USA.																			
171061	LT	2	80.8	82.2	72.1	73.7	13.0	13.0											
All material contained in lot 171061 was cast and manufactured in the USA.																			
ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS																			
ASTM B209-10, AMS 4045K																			
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX	TOTAL MAX.
		SEE ACTUAL CHEMICAL COMPOSITION																	
		ALUMINUM REMAINDER																	

P-860-165D Revised: 02/2014

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2403266556

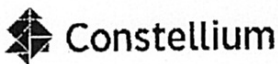
CstAr

CstOr 259848

Wgt.: 93.889 LB

Date 07/16/2014

*John R. Zambetti*

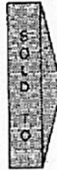


# CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC



COPPER & BRASS SALES, INC.  
5 STERLING DRIVE  
WALLINGFORD CT  
06492-2438



COPPER & BRASS SALES  
P.O. BOX 5116  
SOUTHFIELD MI  
48086

COPPER&BR 802001 4075 INCLUSION SERIAL#: 20140408802001 PAGE 2 OF 3

CUSTOMER PURCHASE ORDER NO. & ITEM				Constellium ORDER NO.	
5400215635				235-473829	
ALLOY	CLAD.	TEMPER	GAUGE	WIDTH	LENGTH
7075	00	T651	1.03000	60.500	144.500
ITEM ORDERED					
MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL					
CUSTOMER SPECIFICATION					
AMS-QQ-A-250/12					
PART NUMBER		B/L NUMBER		DATE SHIPPED	
ALFLR00994		802000		04/10/14	
WEIGHT SHIPPED		NO. OF PIECES		GOVT. CONTRACT NO.	
3,780		4			

**CERTIFICATION**  
"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC  
859 Century Road  
P.O. BOX 68  
RAVENSWOOD, WV 26164 USA

*Steve Good*  
Steve Good - Laboratory Manager

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS	
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX
ACTUAL CHEMICAL COMPOSITION										
171051	C		SI= 0.07	FE= 0.11	CU= 1.44	MN= 0.01	MG= 2.46			
			CR= 0.20	ZN= 5.61	TI= 0.02	ZR= 0.00				
			OTHERS-EACH: .05 MAX.		OTHERS TOTAL: .15 MAX.		AL REMAINDER			
171061	C		SI= 0.07	FE= 0.11	CU= 1.44	MN= 0.01	MG= 2.46			
			CR= 0.20	ZN= 5.61	TI= 0.02	ZR= 0.00				
			OTHERS-EACH: .05 MAX.		OTHERS TOTAL: .15 MAX.		AL REMAINDER			
CHEM COMP	ALLOY		SILICON		IRON		COPPER		MANGANESE	
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
	SEE ACTUAL CHEMICAL COMPOSITION									
			SILICON		IRON		COPPER		MANGANESE	
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			SILICON		IRON		COPPER		MANGANESE	
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			SILICON		IRON		COPPER		MANGANESE	
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P-860-165D Revised: 02-2014

From: ThyssenKrupp Materials NA

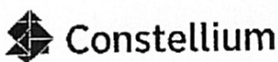
Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2403266556

CstAr CstOr 259848

Wgt.: 93.889 LB Date 07/16/2014

*John L. Zambetti*





# CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES, INC.  
5 STERLING DRIVE  
WALLINGFORD CT

06492-2438

COPPER & BRASS SALES  
P.O. BOX 5116  
SOUTHFIELD MI

48086

COPPER&BR 802001 4075 INCLUSION SERIAL#: 20140408802001 PAGE 3 OF 3

CUSTOMER PURCHASE ORDER NO. & ITEM				Constellium ORDER NO.	
5400215635				235-473829	
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CUSTOMER SPECIFICATION					
AMS-QQ-A-250/12					
PART NUMBER		B/L NUMBER		DATE SHIPPED	
ALFLR00994		802000		04/10/14	
WEIGHT SHIPPED		NO. OF PIECES		GOVT. CONTRACT NO.	
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**CERTIFICATION**  
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Constellium Rolled Products Ravenswood, LLC  
859 Century Road  
P.O. BOX 68  
RAVENSWOOD, WV 26164 USA

*Steve Good*  
Steve Good - Laboratory Manager

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS										
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX									
THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.																			
CHEMISTRY BY OES: ARKSPARK																			
CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT.																			
WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399.																			
WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; B557.																			
Mark Paperwork: ALFLR00994																			
DUNS Number: 090570149; CAGE Code: 1YWL9																			
Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.																			
"END OF CERTIFICATION"																			
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.		
	SEE ACTUAL CHEMICAL COMPOSITION																		
ALUMINUM REMAINDER																			

P-860-155D Revised: 02/2014

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2403266556

CstAr CstOr 259848

Wgt.: 93.889 LB Date 07/16/2014

*John L. Zambetti*



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO24973**

Purchase Order Date 7/11/2014

PO Print Date 7/11/2014

Page Number 1 of 7

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name  
Vendor Phone 905 669 9444  
  
Ship To Contact  
Ship To Phone  
Ship Via: VENDOR'S TRUCK  
Ship Acct:

Buyer  
Customer POID  
Customer Tax # 10127-2607  
Terms Net 30  
Currency CAD  
FOB FCA - (Free Carrier)

PAID

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M2024T3S.080	2024-T3 .080 sheet	7/21/2014 Yes 7/21/2014		192.00 sf	\$4.83	\$928.00
MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209							
Line Total:							\$928.00
2	M304B0.375X03.000	M304 SS bar .375 x 3.00	7/21/2014 Yes 7/21/2014		12.00 sf	\$12.74	\$152.85
MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240							
NOTE: AISI 303 NOT ACCEPTABLE							
Line Total:							\$152.85

Note:

7/11/2014



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO24973

Purchase Order Date 7/11/2014

PO Print Date 7/11/2014

Page Number 2 of 7

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name  
Vendor Phone 905 669 9444  
  
Ship To Contact  
Ship To Phone  
Ship Via: VENDOR'S TRUCK  
Ship Acct:

Buyer  
Customer POID  
Customer Tax #  
Terms  
Currency  
FOB  
Chantal Lavoie  
10127-2607  
Net 30  
CAD  
FCA - (Free Carrier)

3 M304R0.375 304 ROUND BAR 0.375 7/21/2014 48.00 \$0.90 \$43.20  
Yes  
7/21/2014

MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276

NOTE: AISI 303 NOT ACCEPTABLE

Line Total: \$43.20

4 M304S20GA 304/316 .040 Sheet 7/21/2014 144.00 \$3.15 \$453.28  
Yes  
7/21/2014

MATERIAL: AISI 304/316 SS SHEET ANNEALED  
AS PER MIL-S-5059 OR AMS 5513 (304)  
OR AMS 5524 (316) OR ASTM A240 OR  
ASME SA240

Line Total: \$453.28

5 M304S24GA 304/316 .025 Sheet 7/21/2014 80.00 \$3.14 \$251.01  
Yes  
7/21/2014

MATERIAL: AISI 304/316 SS SHEET ANNEALED  
AS PER MIL-S-5059 OR AMS 5513 (304)  
OR AMS 5524 (316) OR ASTM A240 OR  
ASME SA240

Note:

7/11/2014



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO24973**

Purchase Order Date 7/11/2014

PO Print Date 7/11/2014

Page Number 3 of 7

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Customer POID	
		Customer Tax #	10127-2607
Ship To Contact		Terms	Net 30
Ship To Phone		Currency	CAD
Ship Via:	VENDOR'S TRUCK	FOB	FCA - (Free Carrier)
Ship Acct:			

Line Total: \$251.01

6 M6061T6B0.375X02.000 6061-T6 Bar .375 x 2.00 7/21/2014  
Yes  
7/21/2014

12.00  
f

\$2.50 \$30.00

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

Line Total: \$30.00

7 M6061T6B0.500X10.000 6061-T6 Bar .500 x 10.00 7/21/2014  
Yes  
7/21/2014

12.00  
f

\$14.79 \$177.50

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

Line Total: \$177.50

Note:

7/11/2014





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO24973**

Purchase Order Date 7/11/2014

PO Print Date 7/11/2014

Page Number 4 of 7

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name  
Vendor Phone 905 669 9444  
  
Ship To Contact  
Ship To Phone  
Ship Via: VENDOR'S TRUCK  
Ship Acct:

Buyer Chantal Lavoie  
Customer POID  
Customer Tax # 10127-2607  
Terms Net 30  
Currency CAD  
FOB FCA - (Free Carrier)

8	M6061T6B2.000X01.250	6061-T6 Bar 2.00 x 1.25	7/21/2014	36.00	✓	\$5.95	\$214.20
			Yes	f			
			7/21/2014				

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

Line Total: \$214.20

9	M6061T6B1.500X02.500	6061-T6 Bar 1.50 x 2.50	7/21/2014	12.00	X	\$9.30	\$111.60
			Yes	f			
			7/21/2014				

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

Line Total: \$111.60

10	M6061T6R0.500	6061-T6 Round Bar .500"	7/21/2014	12.00	✓	\$2.50	\$30.00
			Yes	f			
			7/21/2014				

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

Note:

7/11/2014



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO24973

Purchase Order Date 7/11/2014

PO Print Date 7/11/2014

Page Number 5 of 7

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

FCA - (Free Carrier)

Line Total: \$30.00

11 M6061T6R3.500 6061 RD bar 3.50 7/21/2014  
Yes  
7/21/2014

8.00  
f

\$25.26 \$202.10

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

Line Total: \$202.10

12 M6061T6S.063 6061-T6 .063 Sheet 7/21/2014  
Yes  
7/21/2014

144.00  
sf

\$2.40 \$345.00

MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER  
QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027  
OR ASTM B209

Line Total: \$345.00

Note:

7/11/2014



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO24973

Purchase Order Date 7/11/2014

PO Print Date 7/11/2014

Page Number 6 of 7

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name  
Vendor Phone 905 669 9444  
  
Ship To Contact  
Ship To Phone  
Ship Via: VENDOR'S TRUCK  
Ship Acct:

Buyer  
Customer POID  
Customer Tax # 10127-2607  
Terms Net 30  
Currency CAD  
FOB FCA - (Free Carrier)

13	M7075T6B0.375X6.000	7075-T6 BAR 0.375" X 6.000"	7/21/2014	24.00	✓	\$16.21	\$389.00
		Yes	7/21/2014	f			

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR  
AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR  
PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE

*7/11/25*

Line Total: \$389.00

14	M7075T6B1.500X1.500	7075 T6 BAR 1.500 x 1.500	7/21/2014	12.00	X	\$14.85	\$178.20
		Yes	7/21/2014	f			

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR  
AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR  
PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE

Line Total: \$178.20

Note:

7/11/2014



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO24973**

Purchase Order Date 7/11/2014

PO Print Date 7/11/2014

Page Number 7 of 7

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name		Buyer	Chantal Lavoie			
Vendor Phone	905 669 9444	Customer POID				
		Customer Tax #	10127-2607			
Ship To Contact		Terms	Net 30			
Ship To Phone		Currency	CAD			
Ship Via:	VENDOR'S TRUCK	FOB	FCA – (Free Carrier)			
Ship Acct:						
M7075T6B6.000X1.000	7075-T6 BAR 6.000" X 1.000"	7/21/2014	24.00	<i>φ</i>	\$35.96	\$863.08
		Yes		<i>f Nec 12</i>		
		7/21/2014		<i>6/19/11/25</i>		
MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE						
					Line Total:	\$863.08
71401-45		7/21/2014	1.00		\$0.00	\$0.00
		No				
		7/21/2014				
Procurement Quality Clauses A005 right of entry A012 chemical and physical test report A016 personnel qualification A017 raw material identification (as applicable) A026 certification of material conformance A041 quality management system A042 dart notification by supplier A043 retention of quality document						
					Line Total:	\$0.00
					PO Total:	\$4,369.02

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Change Nbr: 2

Change Date: 7/11/2014